

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 March 2005 (17.03.2005)

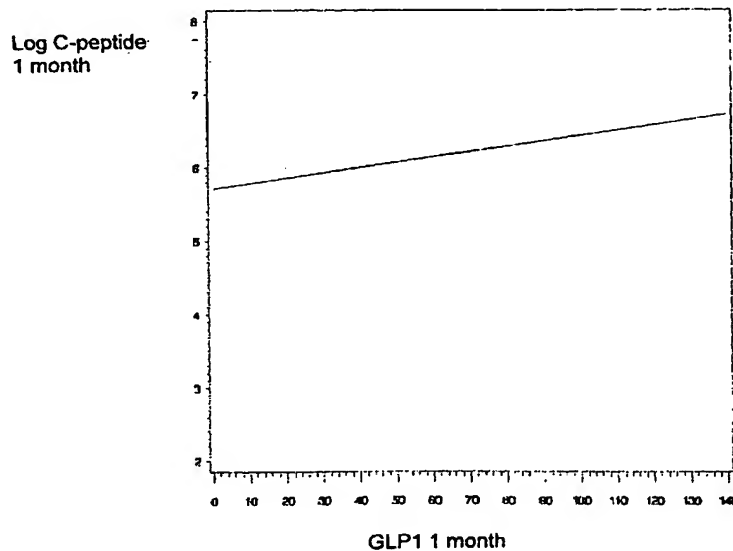
PCT

(10) International Publication Number
WO 2005/023291 A2

- (51) International Patent Classification⁷: **A61K 38/26**, (74) Common Representative: **NOVO NORDISK A/S**; Corporate Patents, Novo Allé, DK-2880 Bagsværd (DK).
G01N 33/74, 33/72, A61P 3/10
- (21) International Application Number: **PCT/DK2004/000599**
- (22) International Filing Date:
10 September 2004 (10.09.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PA 2003 01321 11 September 2003 (11.09.2003) DK
60/505,500 24 September 2003 (24.09.2003) US
- (71) Applicants (for all designated States except US): **NOVO NORDISK A/S** [DK/DK]; Novo Allé, DK-2880 Bagsværd (DK). **KØBENHAVNS AMT** [DK/DK]; Stationsparken 27, DK-2600 Glostrup (DK).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **HANSEN, Lars** [DK/DK]; Gammel Kongevej 152A, 1 tv., DK-1850 Frederiksberg C (DK). **MORTENSEN, Henrik, Bindesbøl** [DK/DK]; Hasselhaven 121, DK-2600 Glostrup (DK).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **USE OF GLP1-AGONISTS IN THE TREATMENT OF PATIENTS WITH TYPE I DIABETES**



(57) Abstract: The present invention relates to the use of GLP-1 agonists in the treatment of patients with type I diabetes, where the patient is newly diagnosed with type 1 diabetes when treatment with the GLP-1 agonist is initiated. The present invention also relates to the use of GLP-1 agonists to prolong the remission period in such patients. The present invention further re-lates to a diagnostic test which utilizes measurement of endogenous GLP-1 levels to predict loss of beta cell function in patients with type I diabetes. The present invention further relates to methods for determining whether a patient with type 1 diabetes is in need of treatment with a GLP-1 agonist and/or is in remission.



Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.